

## Population Analysis for Blades Groundwater Site

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**Subject:** Population within distance rings for the Blades Groundwater, Blades, Sussex County, DE

The population within a 4-mile radius of the Blades Groundwater Site, was obtained through data analysis performed on the Bureau of the Census 2010 population data. Census data was obtained at the block level and weighted populations were assigned based on the ring boundary intersections. Blocks that intersected ring boundaries were split by the boundary and population was calculated based on the proportion of the block that fell within the specific ring. The following equation was used to calculate the weighted population:

$$\text{Weighted population} = \text{Population} * \text{New Clipped Block Area} / \text{Original Total Block Area}$$

The population is provided for each radius from 0 to 4-miles.

Population within Distance Rings	
Distance Ring (miles):	Population (number of persons):
0.0 – 0.25	97
0.25 – 0.50	312
0.50 – 1.0	2,750
1.0 – 2.0	5,905
2.0 – 3.0	5,308
3.0 – 4.0	5,201